



# SEQUENCE LISTING

<110> Tchaga, Grigory S.  
Jokhadze, George

<120> Metal Ion Affinity Tags and Methods for  
Using the Same

<130> CLON-056CIP

<140> US 09/858,332

<141> 2001-05-15

<150> 09/404,017

<151> 1999-09-23

<150> 60/101,867

<151> 1998-09-25

<160> 33

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<210> 4

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<210> 10  
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<220>  
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<210> 11  
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<223> an immunological tag

<400> 11  
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<210> 12

<211> 11  
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<210> 13  
 <211> 3426  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence of vector containing cDNA of  
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 tctaaataca ttcaaataatg tatccgctca tgagacaata accctgataa atgcttcaat 180  
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 acttacttct gacaacgatc ggaggaccga aggagctaac cgcttttttg cacaacatgg 660  
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cccgccaaaca ccgctgacg cgccctgacg ggcttgtctg ctcccggcat ccgcttacag 3360
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<211> 269

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<213> Artificial Sequence

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Gly Ser Asp Ser Arg Glu Gly Ala Trp Pro Trp Val Val Ala Leu Tyr
35          40          45
Phe Asp Asp Gln Gln Val Cys Gly Ala Ser Leu Val Ser Arg Asp Trp
50          55          60
Leu Val Ser Ala Ala His Cys Val Tyr Gly Arg Asn Met Glu Pro Ser
65          70          75          80
Lys Trp Lys Ala Val Leu Gly Leu His Met Ala Ser Asn Leu Thr Ser
85          90          95
Pro Gln Ile Glu Thr Arg Leu Ile Asp Gln Ile Val Ile Asn Pro His
100         105         110
Tyr Asn Lys Arg Arg Lys Asn Asn Asp Ile Ala Met Met His Leu Glu
115         120         125
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130         135         140
Glu Asn Gln Val Phe Pro Pro Gly Arg Ile Cys Ser Ile Ala Gly Trp
145         150         155         160
Gly Ala Leu Ile Tyr Gln Gly Ser Thr Ala Asp Val Leu Gln Glu Ala
165         170         175
Asp Val Pro Leu Leu Ser Asn Glu Lys Cys Gln Gln Gln Met Pro Glu
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Tyr Asn Ile Thr Glu Asn Met Val Cys Ala Gly Tyr Glu Ala Gly Gly
195         200         205
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210	215	220
Asn Asn Arg Trp Leu Leu Ala Gly Val Thr Ser Phe Gly Tyr Gln Cys		
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 <212> DNA  
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 <223> Xaa at position 9 is an amino acid with an  
         aliphatic or amide side chain.  
  
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 <223> Xaa at position 2 is an amino acid with an  
         aliphatic or amide side chain  
  
 <220>  
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 <223> Xaa at position 3 is an amino acid with an  
         aliphatic or amide side chain.  
  
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 <221> VARIANT  
 <222> 5  
 <223> Xaa at position 5 is an amino acid with a basic  
         side chain (except HIS) or an acidic side chain.  
  
 <220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa at position 6 is an amino acid with a basic  
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<220>  
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 <222> 7  
 <223> Xaa at position 7 is an amino acid with a basic  
 side chain (except HIS) or an acidic side chain.

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 1 5

<210> 22  
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<220>

<400> 22  
 His Arg His Arg His Arg  
 1 5

<210> 23  
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